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DERWENT-WEEK: 198329

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TITLE: Ultrasonic control of emulsion polymerisation - by
measuring the change in rate of ultrasound transmission
in the medium during polymerisation

INVENTOR: SAEUBERLIC, R

PATENT-ASSIGNEE: HAUPTMANN P[HAUPI]

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DD <u>159673</u> A	March 23, 1983	N/A	009	N/A

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ABSTRACTED-PUB-NO: DD 159673A

BASIC-ABSTRACT:

Ultrasonic process for continuous process control during addn. emulsion polymerisation comprises measuring the change in speed of an ultrasound impulse in the medium being tested by indirect passage time measurement, so as to give instantaneous information on the progress of polymerisation.

In a pref. process the change in ultrasound speed is determined to an accuracy of 1% using a modified sing-around method with two piezo converters spaced apart at a constant distance of at least 3 cm in the reactor, and displaying the result digitally or by analogue.

The ultrasonic readings give information on polymer content, initiator, emulsifier, stabiliser and conditions within the system and by comparing the measured values with reference values, the signals can be used for automatic control of the input and other process parameters.

TITLE-TERMS: ULTRASONIC CONTROL EMULSION POLYMERISE MEASURE
CHANGE RATE

ULTRASONIC TRANSMISSION MEDIUM POLYMERISE

DERWENT-CLASS: A18 S02 S03 X25

CPI-CODES: A09-D; A10-B03;

EPI-CODES: S02-G02X; S03-E08X; S03-G02X; X25-X;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0007 0230 0787 2066 2075 2082 2276 2339 2343

Multipunch Codes: 013 030 04& 066 067 318 324 347 352 371 375 688 691

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CPI Secondary Accession Numbers: C1983-067003

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